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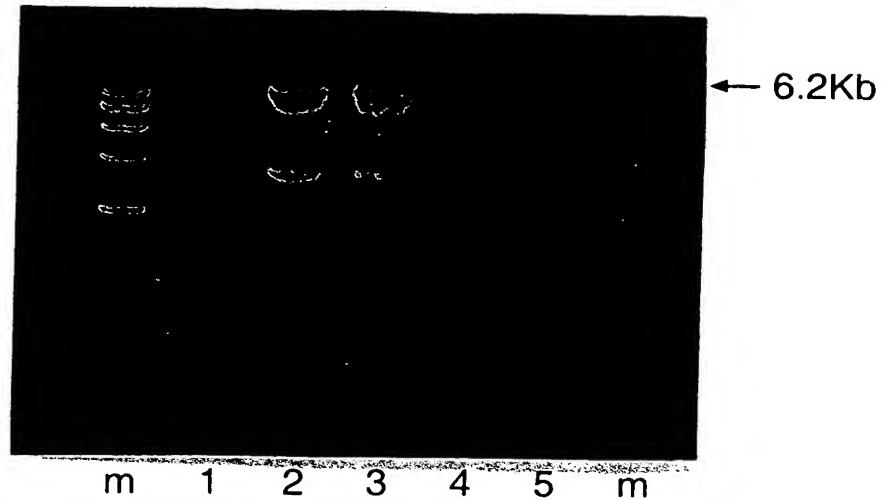


FIG. 1

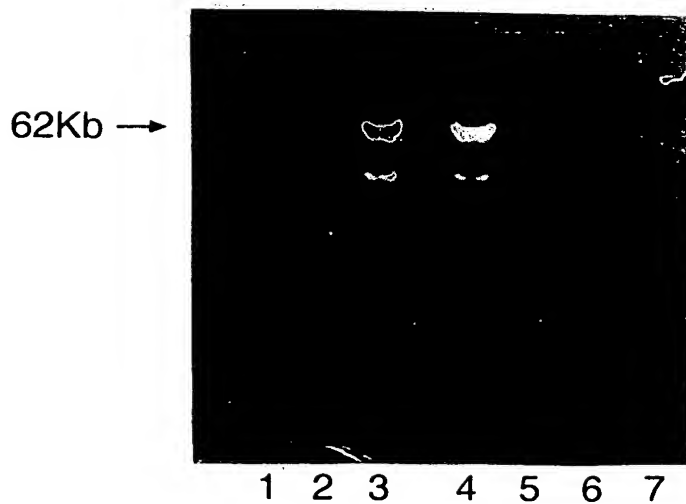


FIG. 2

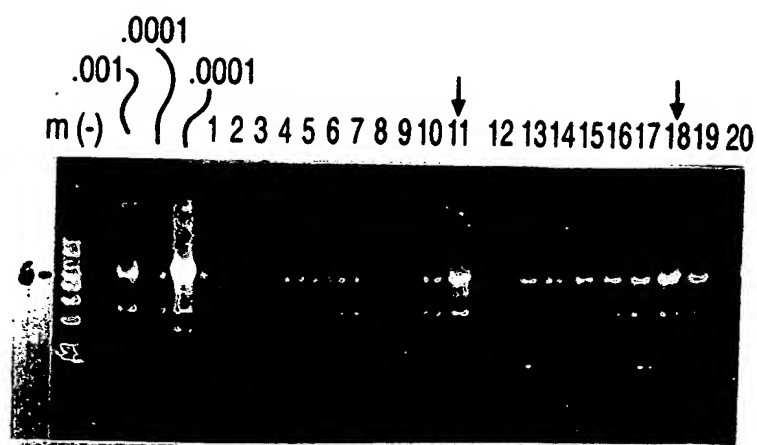


FIG. 3

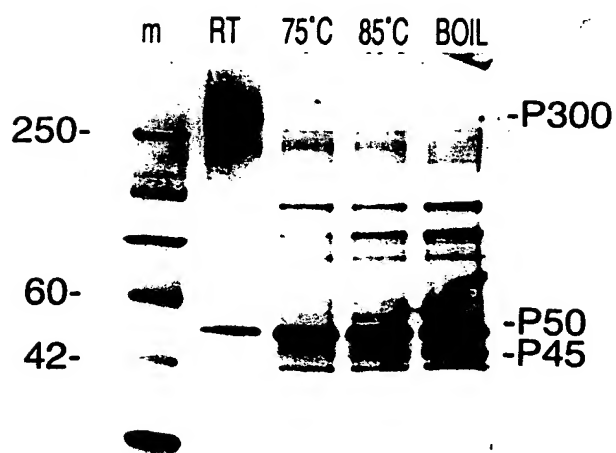


FIG. 7

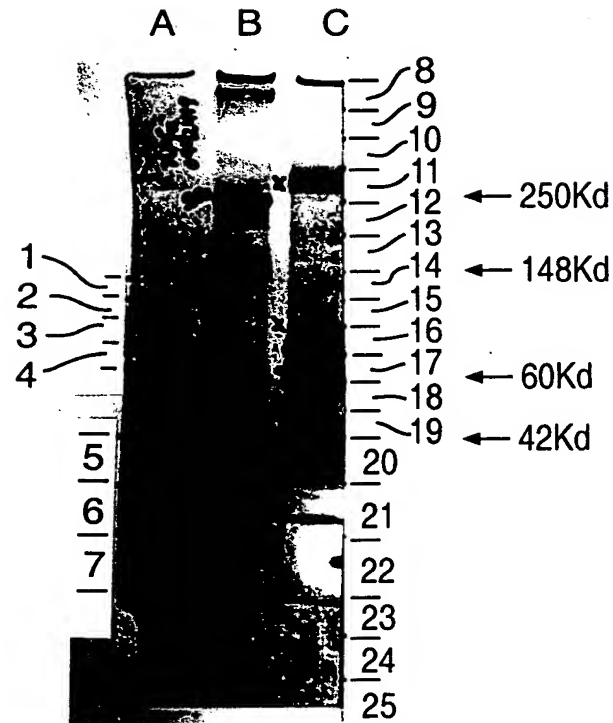


FIG. 4

REPLACEMENT SHEET

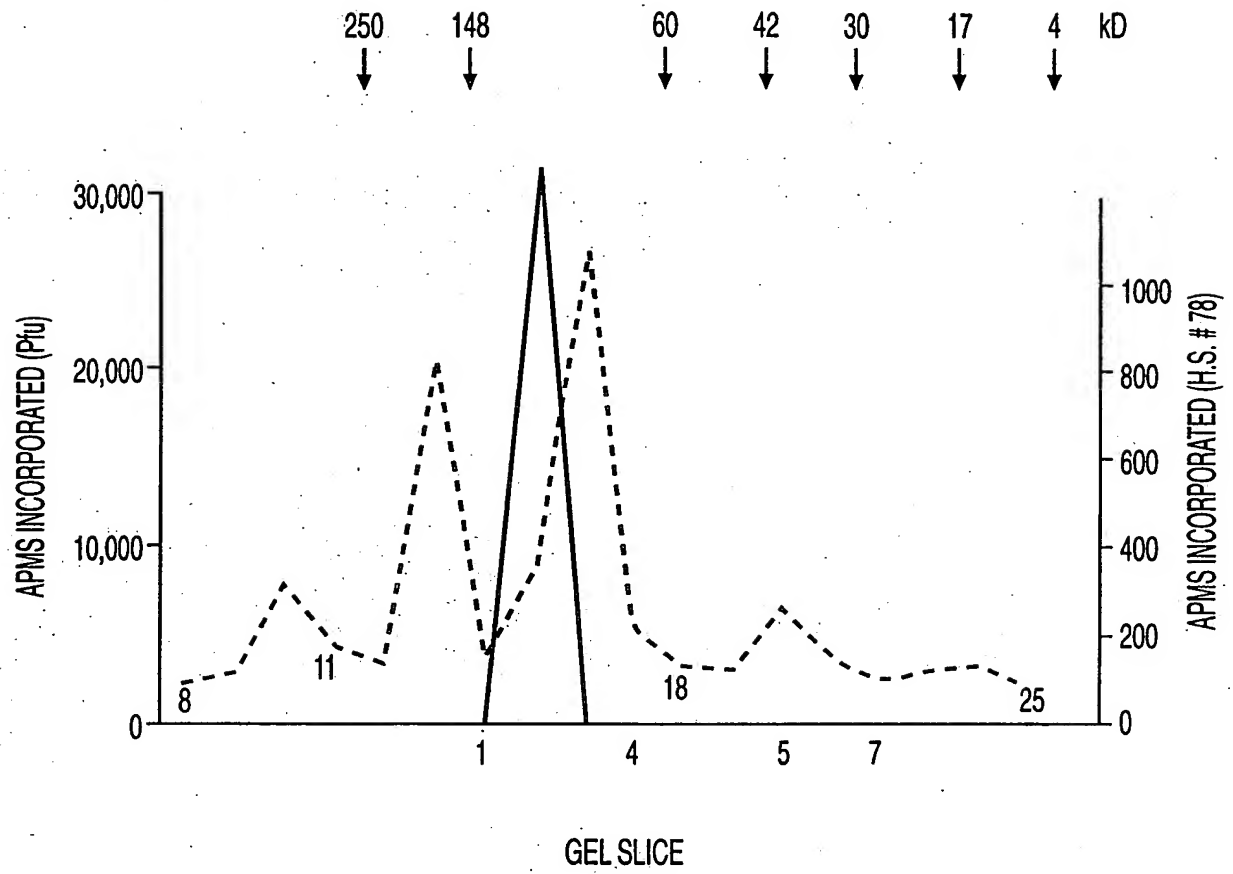


FIG. 5

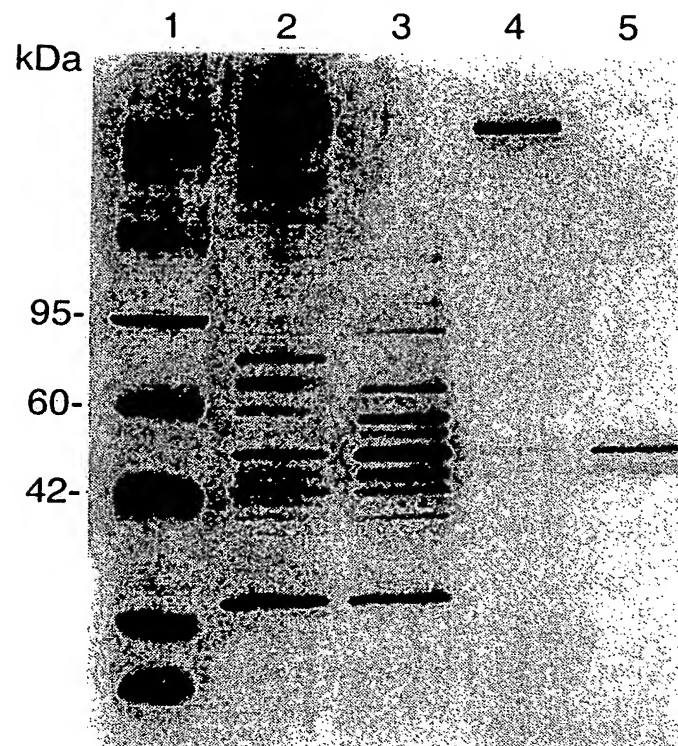


FIG. 6

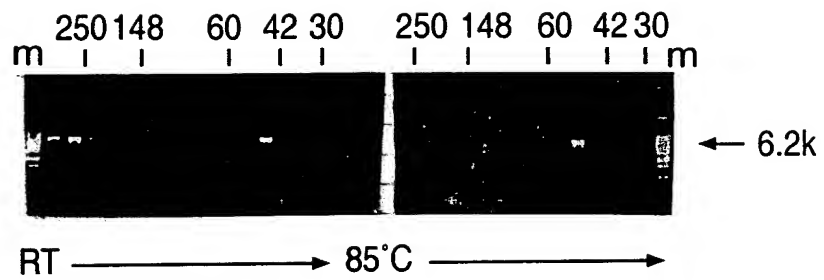


FIG. 8

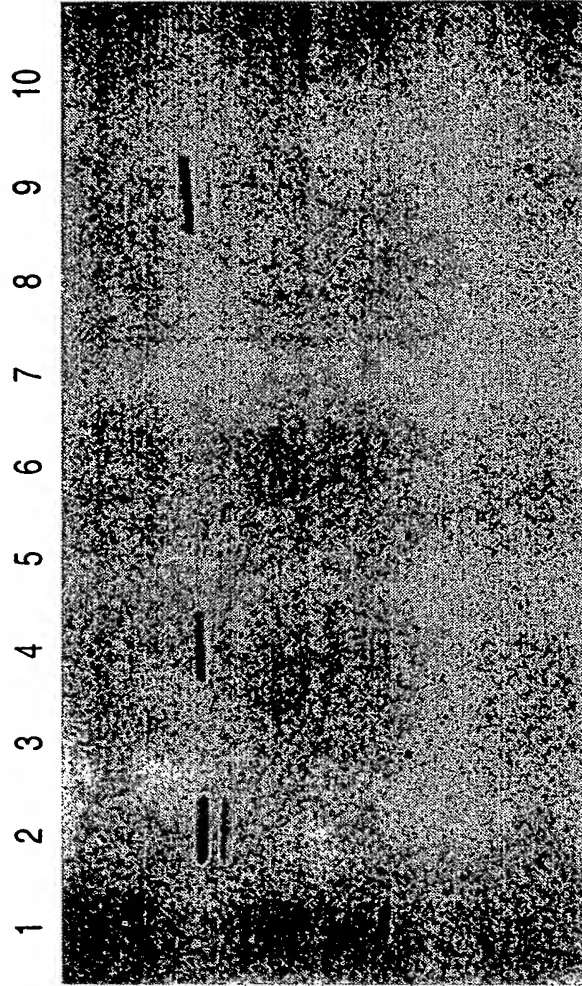


FIG. 9



FIG. 10



FIG. 11A

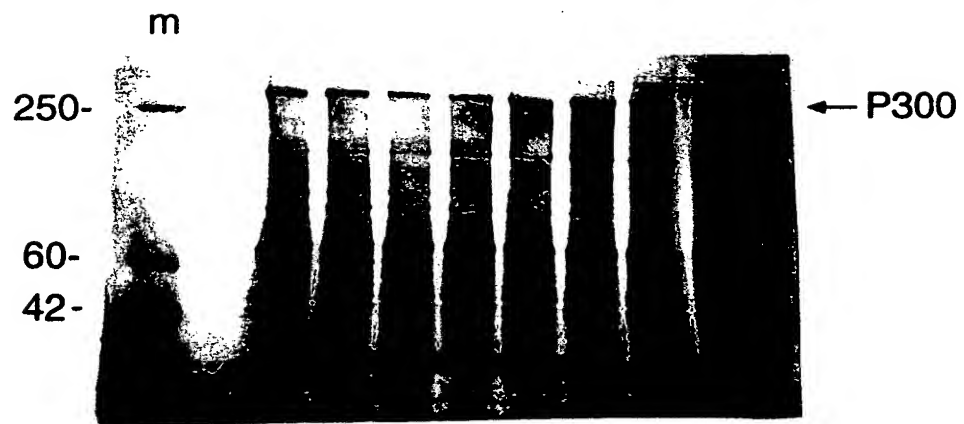


FIG. 11B

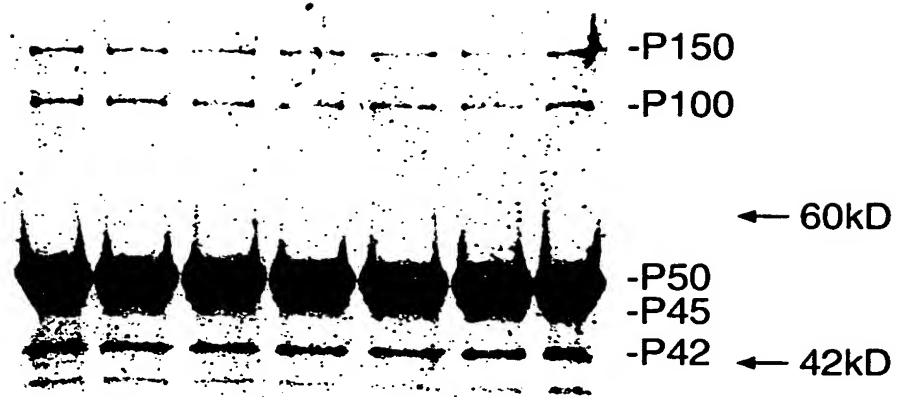


FIG. 12

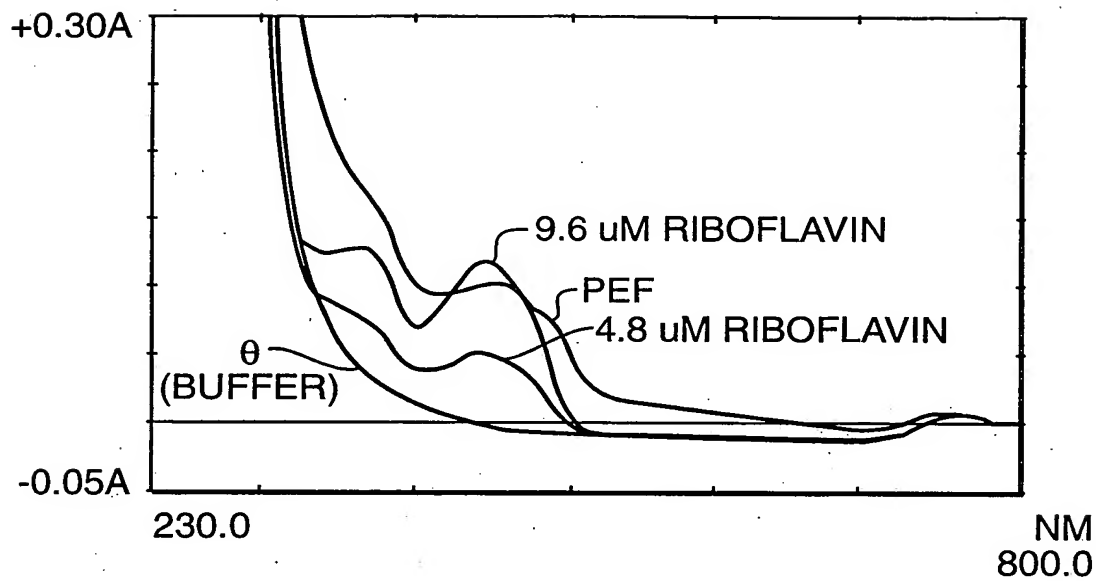


FIG. 13

PEF LOT 52				PEF LOT 49				CLONE 1				CLONE 23			
NONE	7	0.7	0.2	7	0.7	0.2		1 ul (1/10)	1 ul	5 ul		1 ul (1/10)	1 ul	5 ul	



FIG. 14

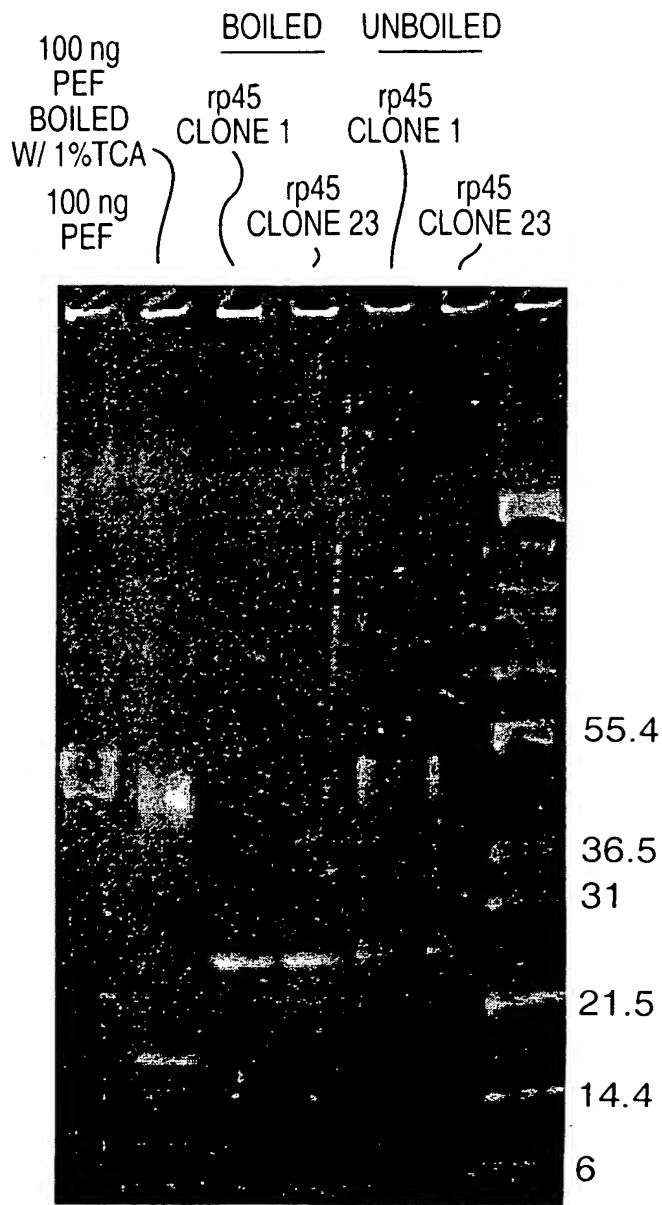


FIG. 15

REPLACEMENT SHEET

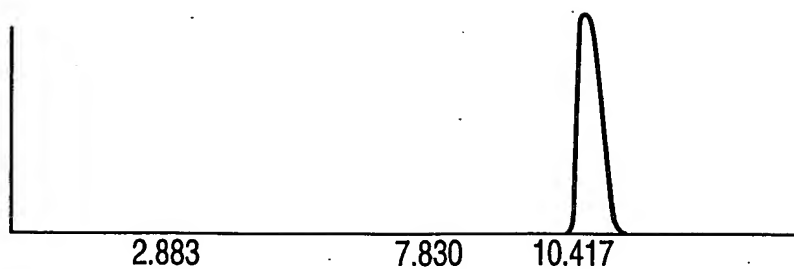


FIG. 16A

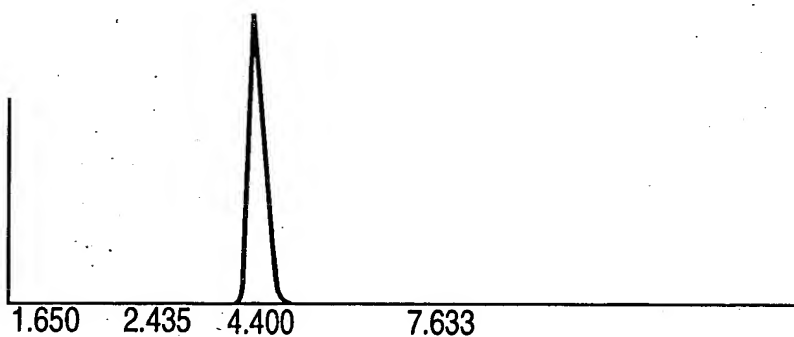


FIG. 16B

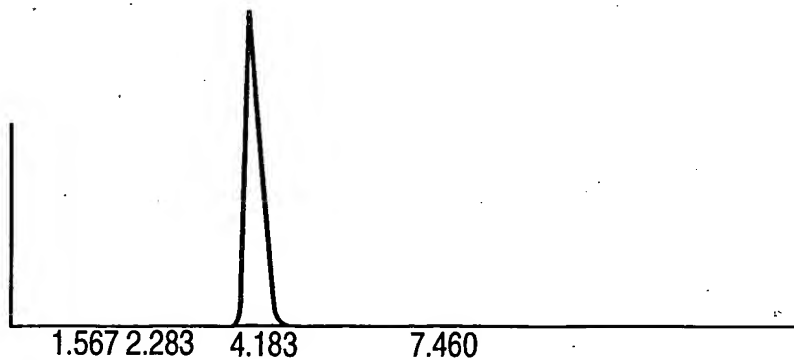


FIG. 16C

REPLACEMENT SHEET

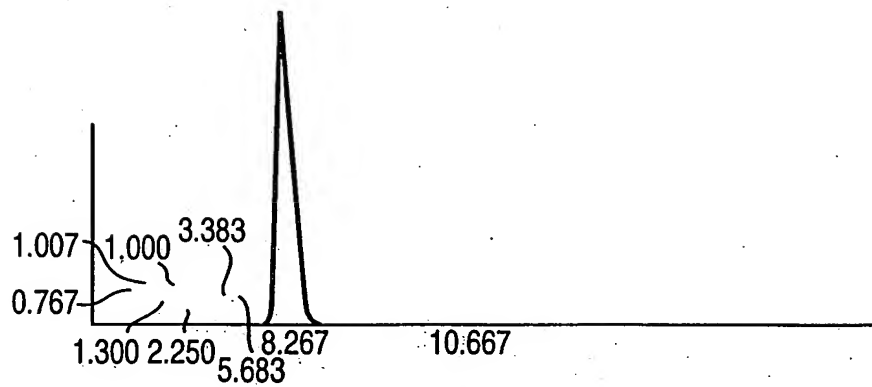


FIG. 16D

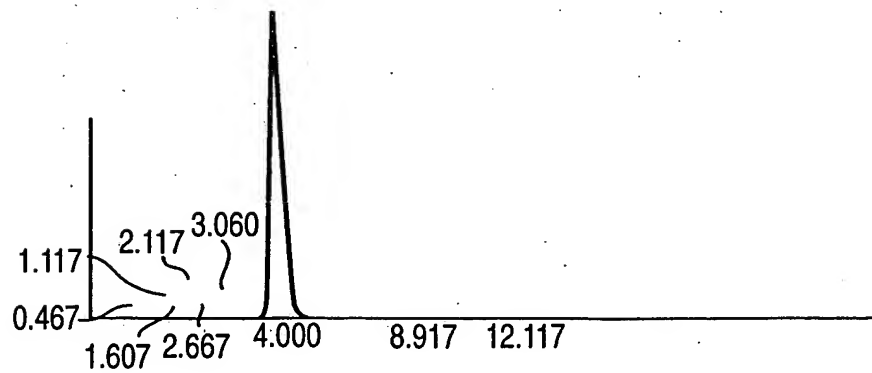


FIG. 16E

REPLACEMENT SHEET

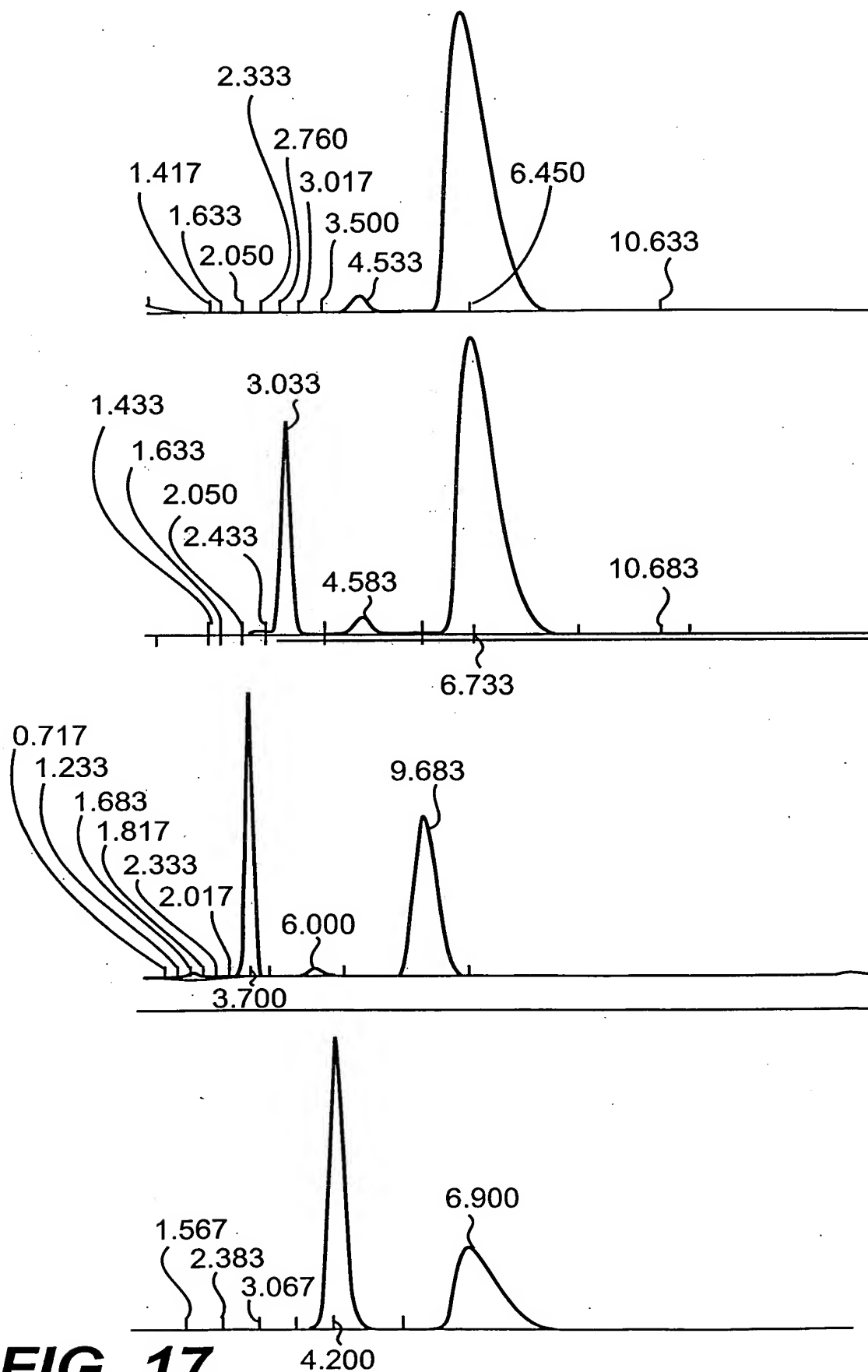


FIG. 17

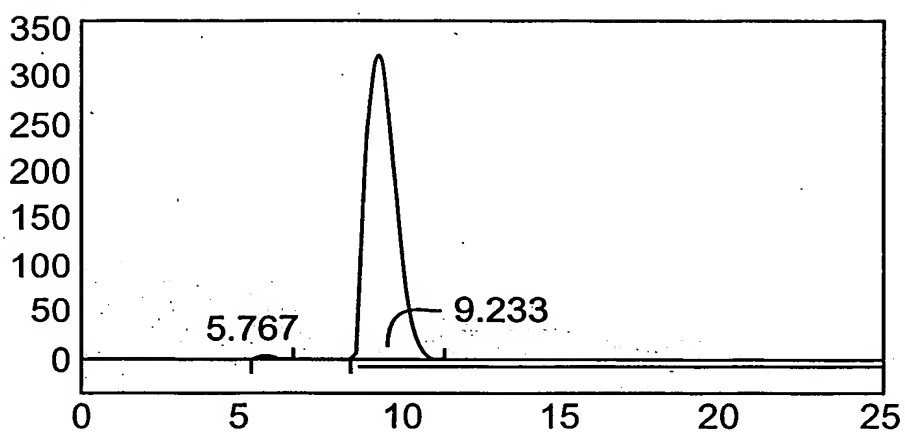


FIG. 18A

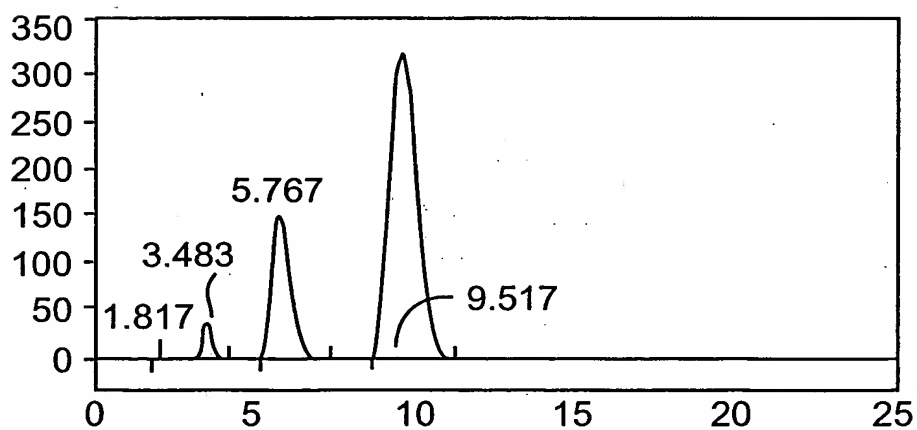


FIG. 18B

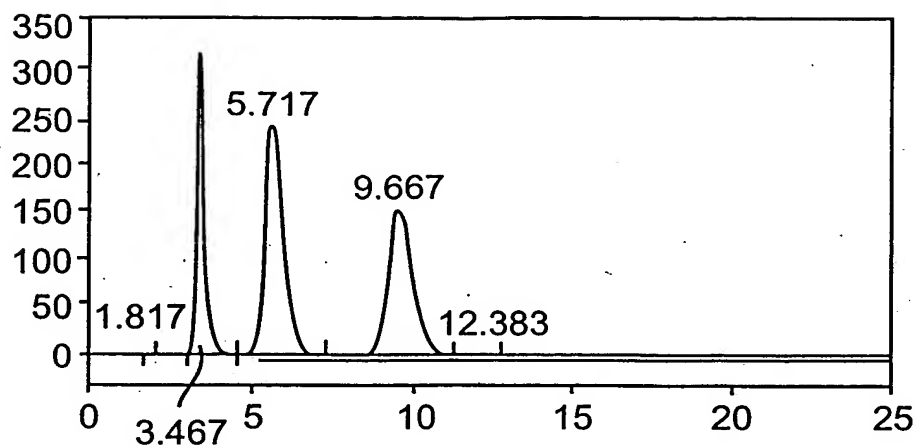


FIG. 18C

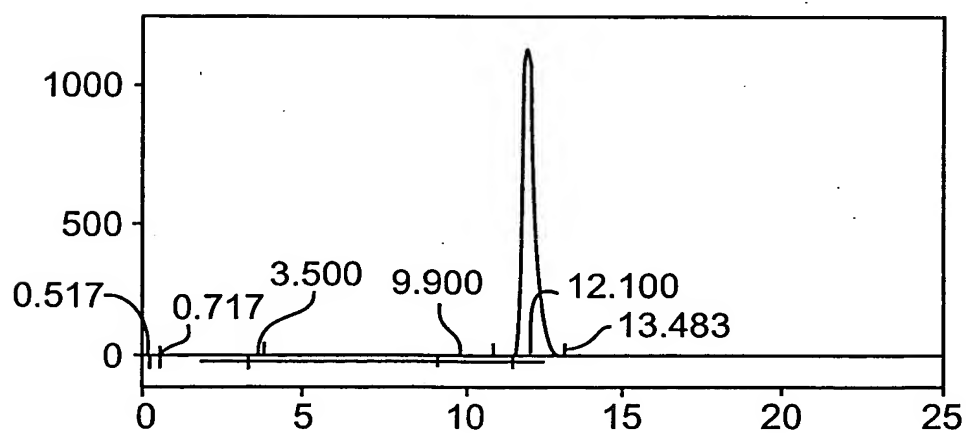


FIG. 18D

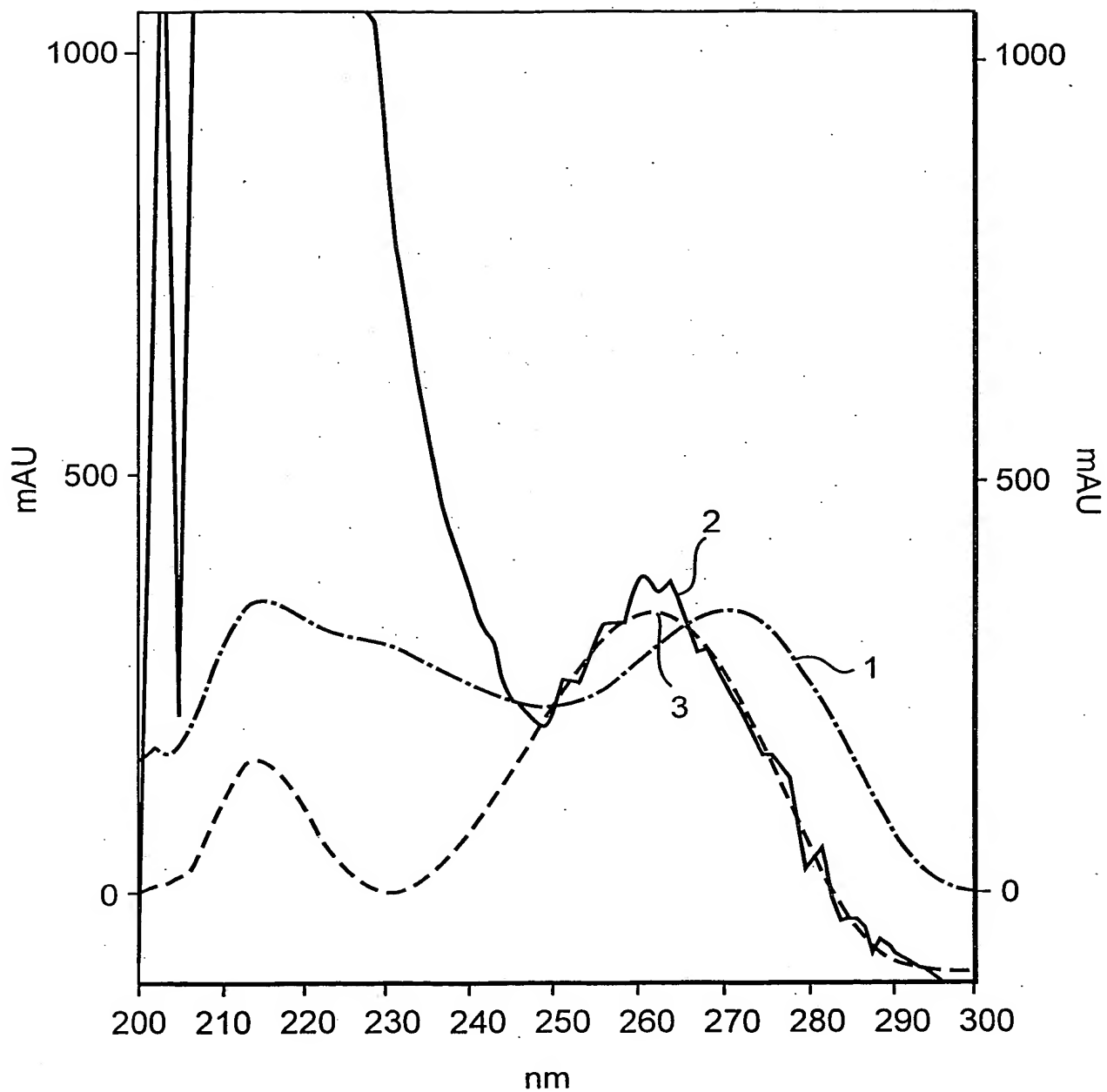


FIG. 19

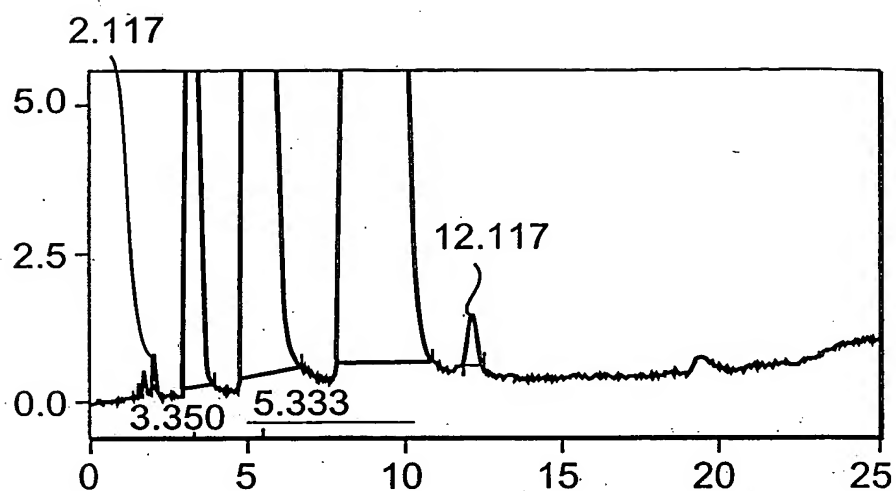


FIG. 20A

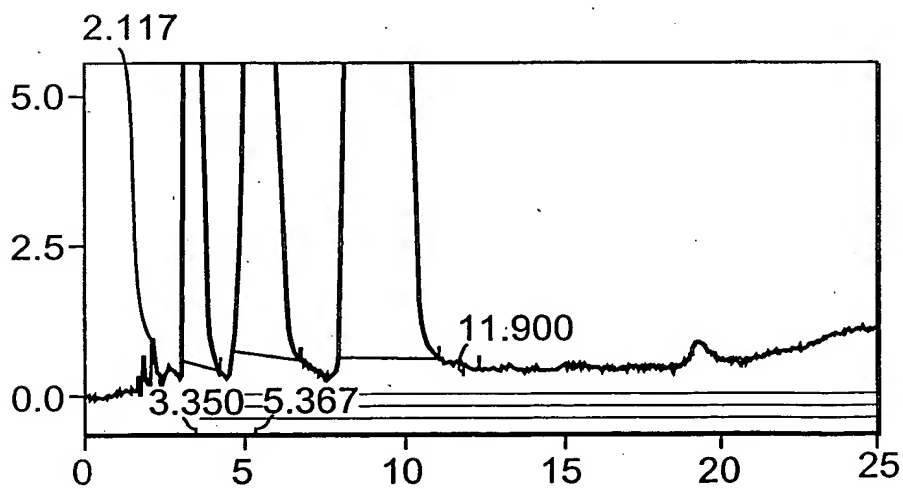


FIG. 20B

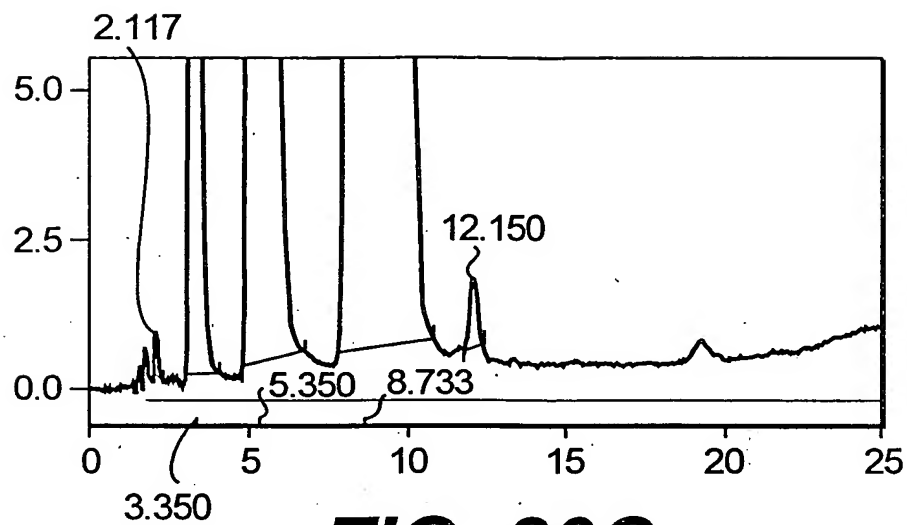


FIG. 20C

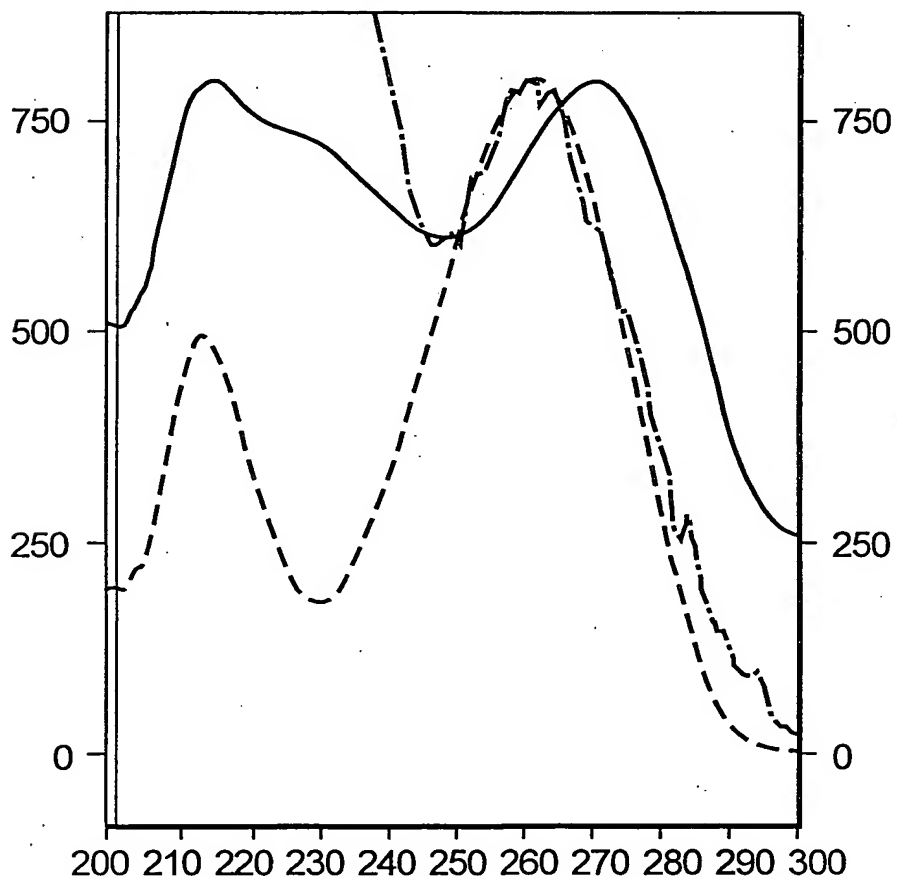


FIG. 20D

1 2 3 4 5 6 7 8 9 10 11 12 13

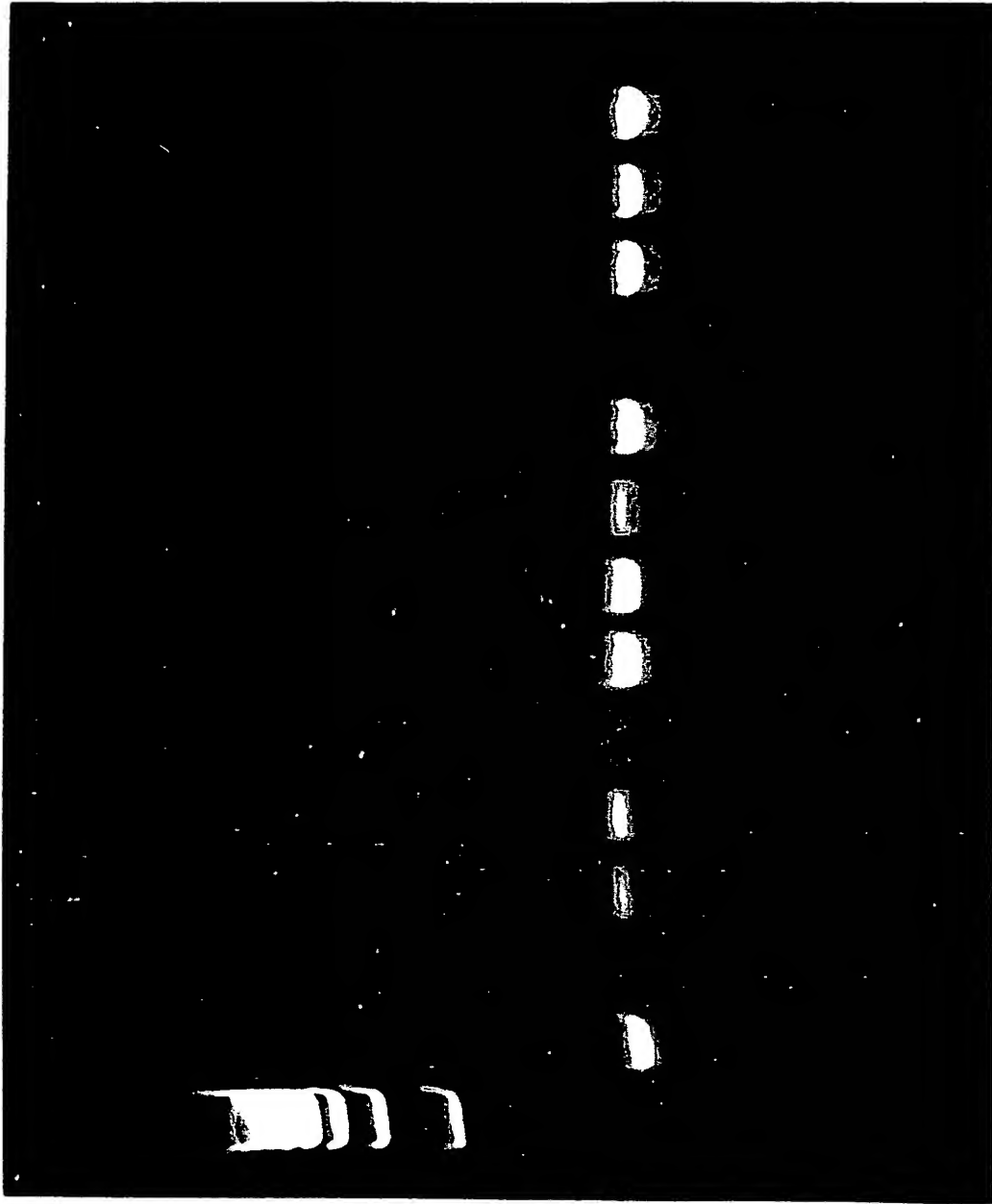


FIG. 21

Pfu Pol			Pfu Pol + PEF	Taq Pol
NO OLIGO	Pmole CONTROL OLIGO	Pmole dU OLIGO	Pmole dU OLIGO	Pmole dU OLIGO
PEF - +	16 8 1.6 0.8 0.16 M 0.08	0.016 M 16 8 1.6 0.8 0.16 0.08	0.016 16 8 1.6 0.8 0.16 0.08	0.16 16 8 1.6 0.8 0.08

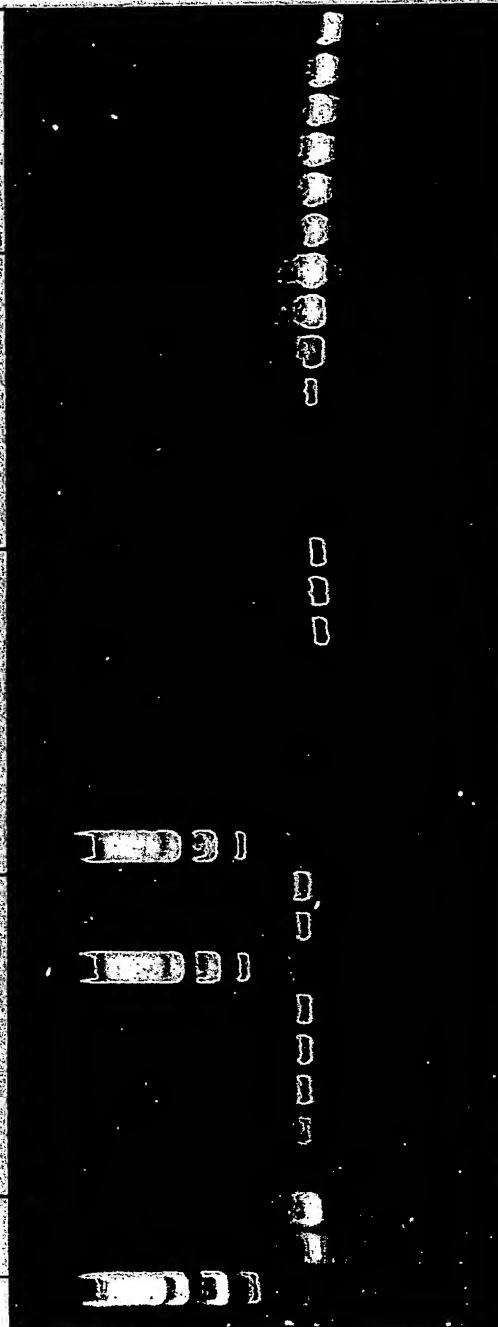


FIG. 22

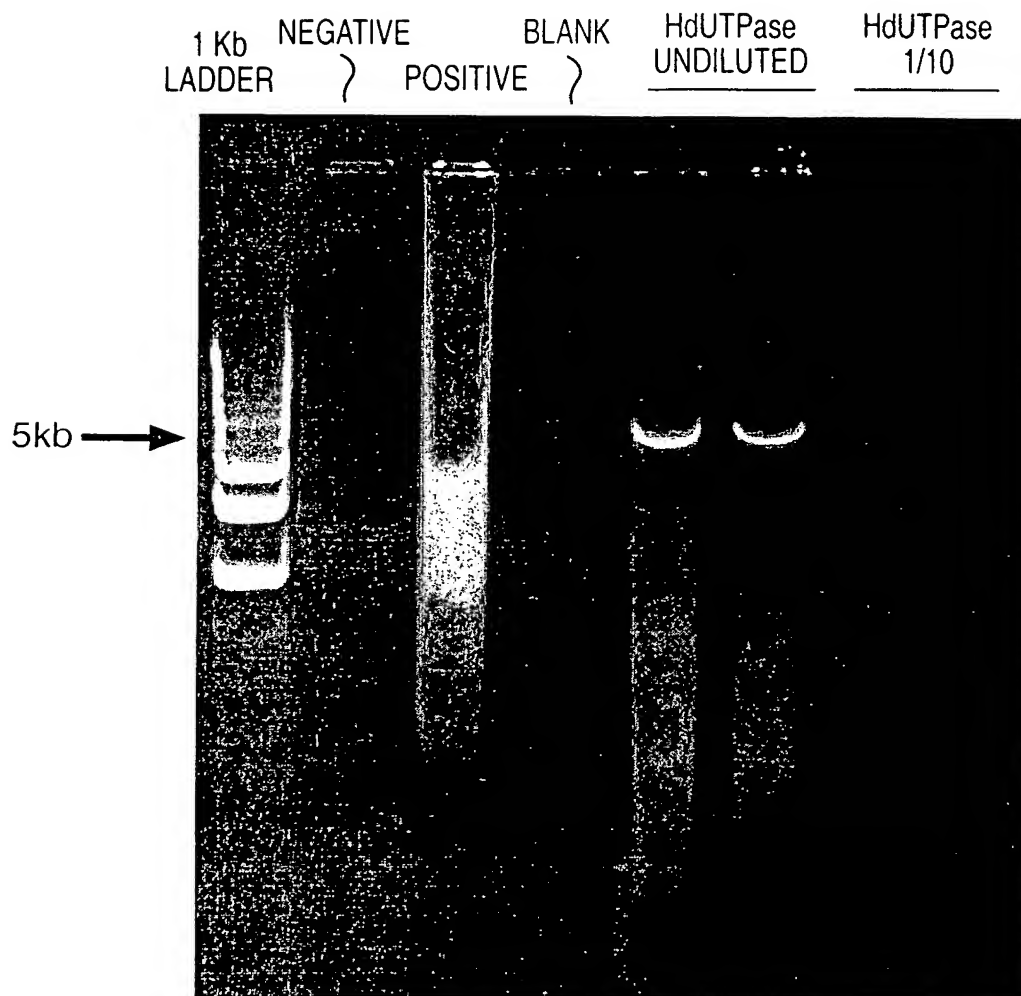


FIG. 23

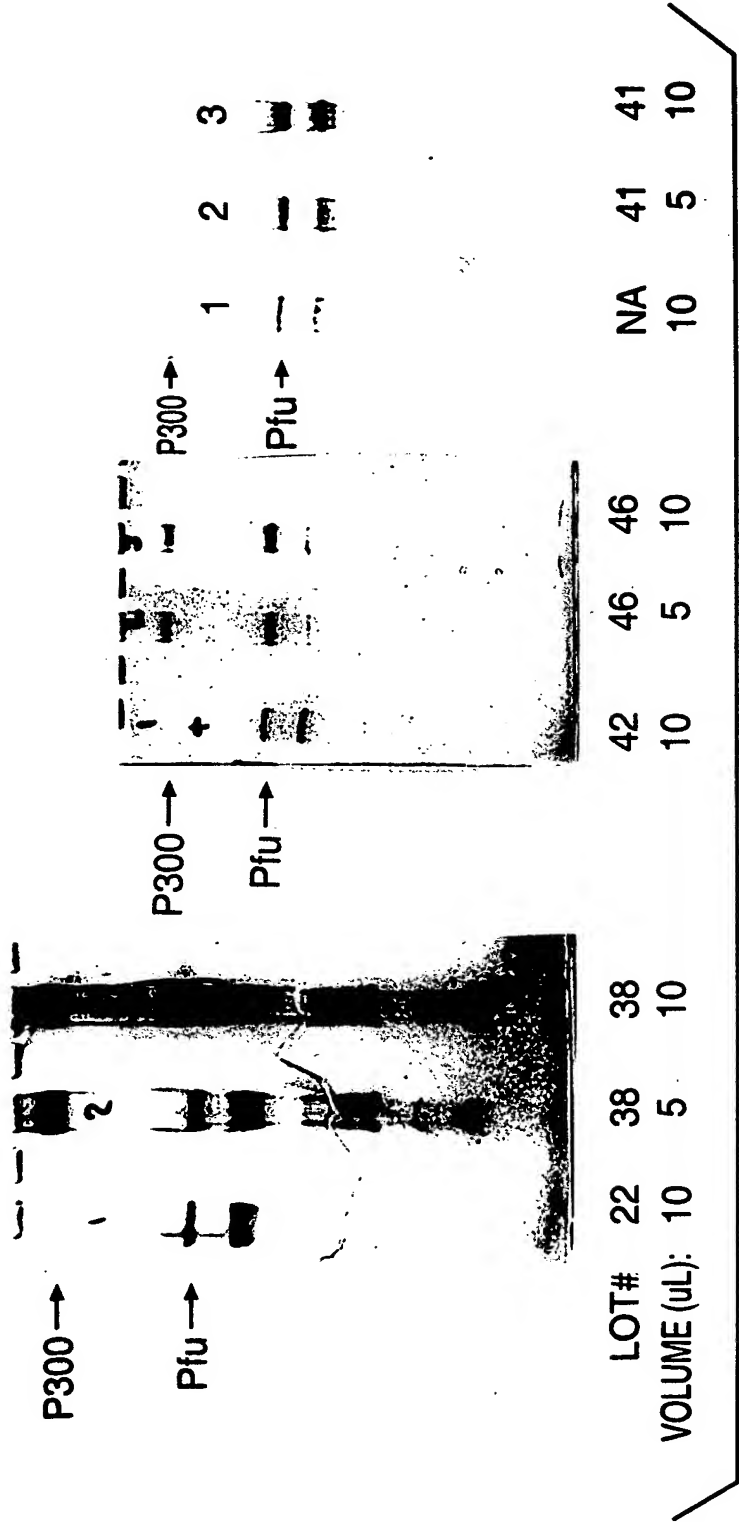


FIG. 24

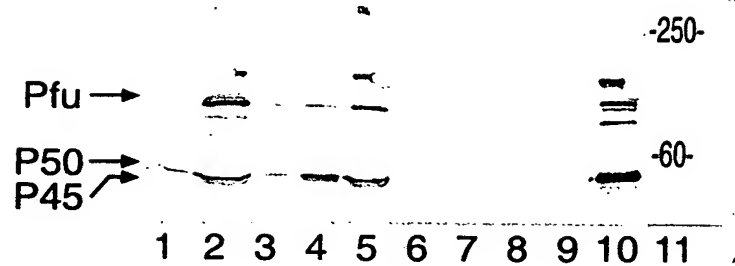


FIG. 25

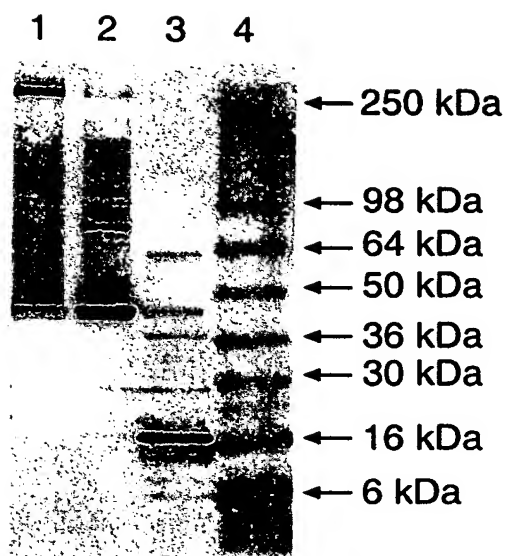


FIG. 26

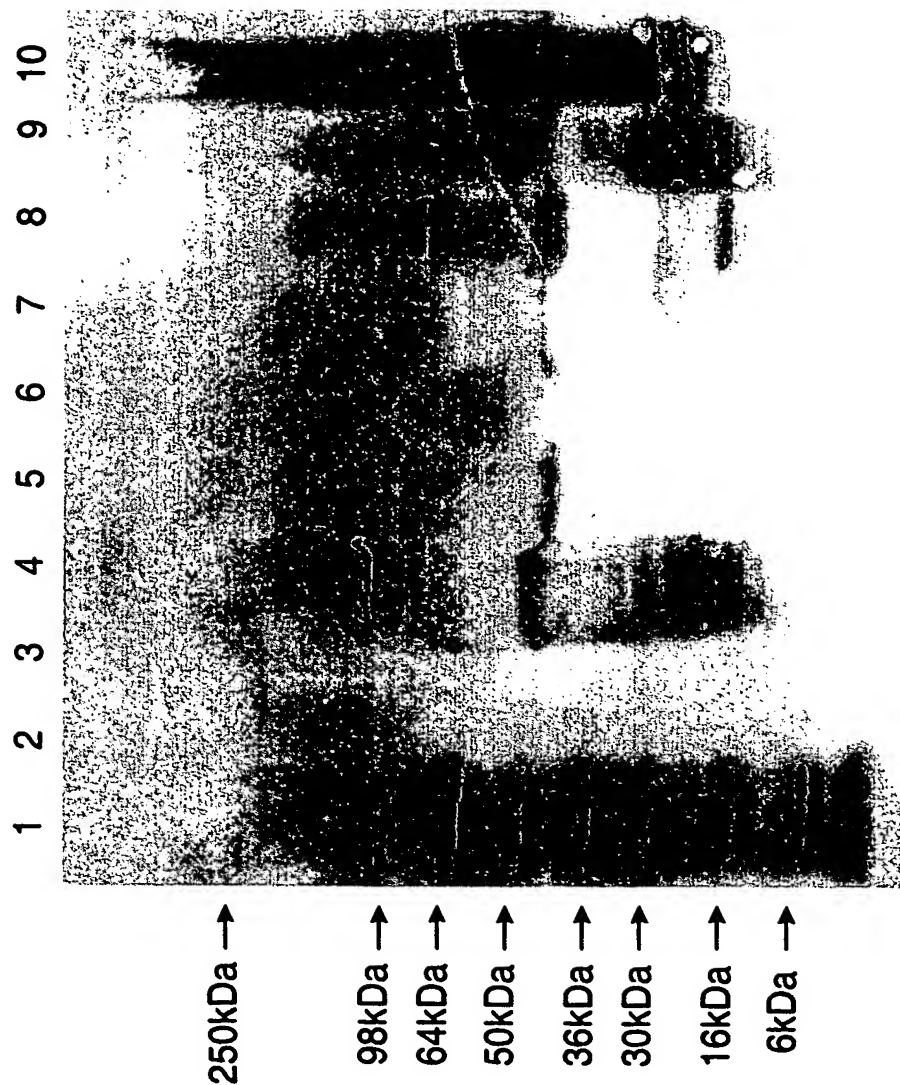


FIG. 27

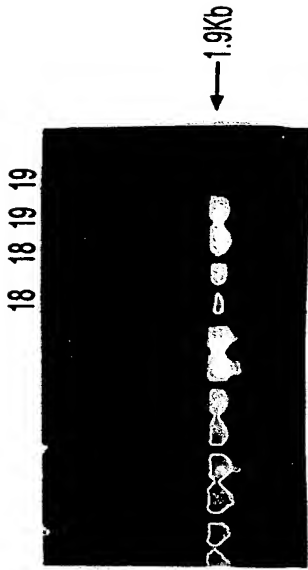


FIG. 28

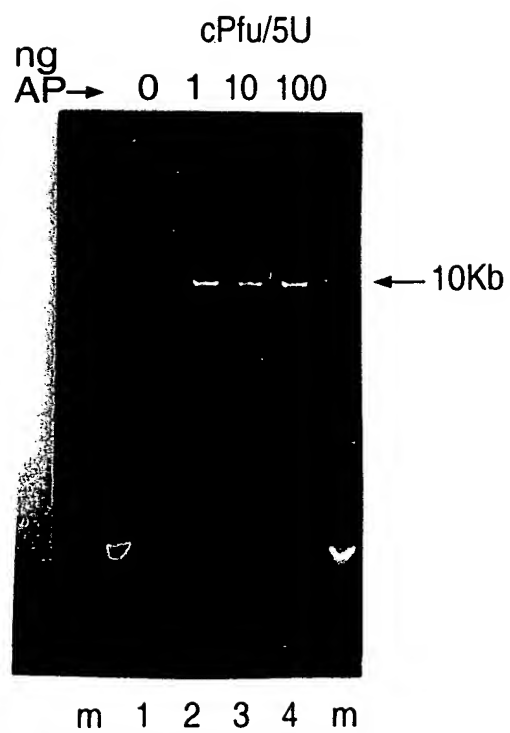


FIG. 29

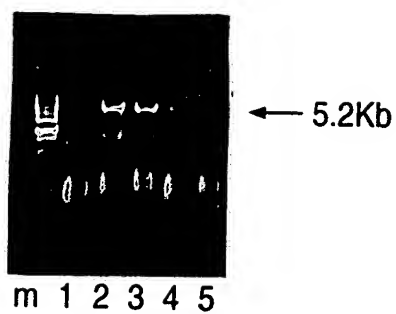


FIG. 30

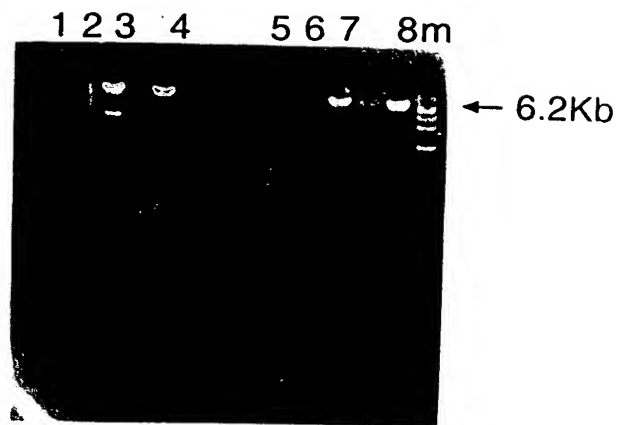


FIG. 31

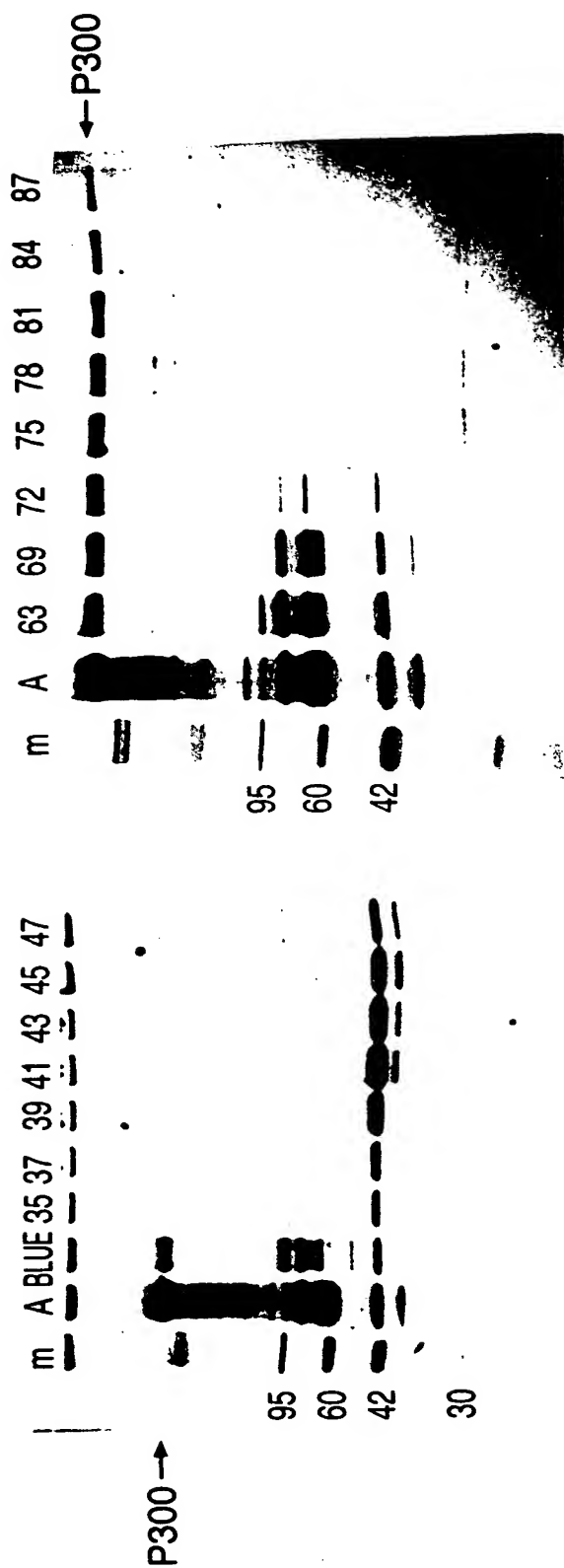


FIG. 32A

FIG. 32B

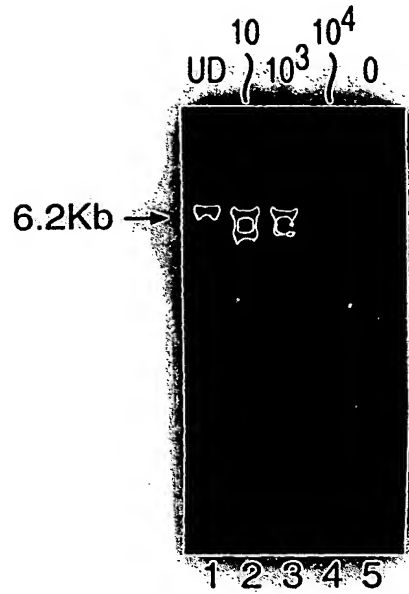


FIG. 33

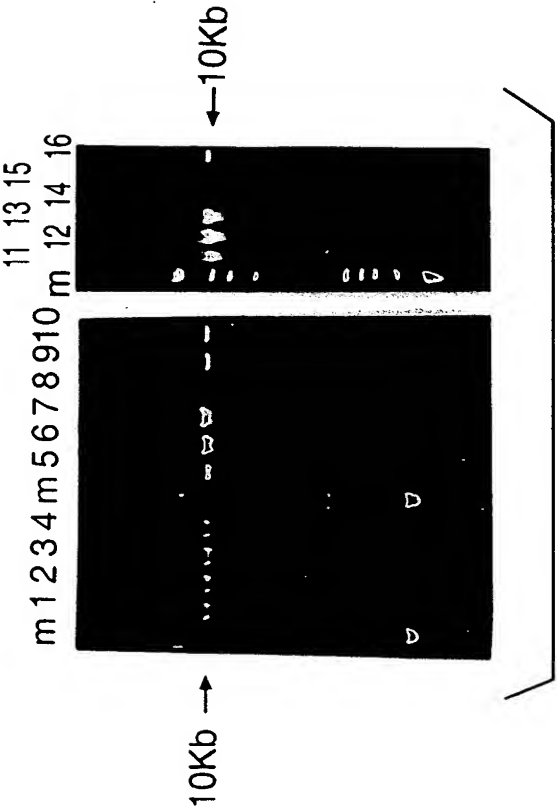


FIG. 34

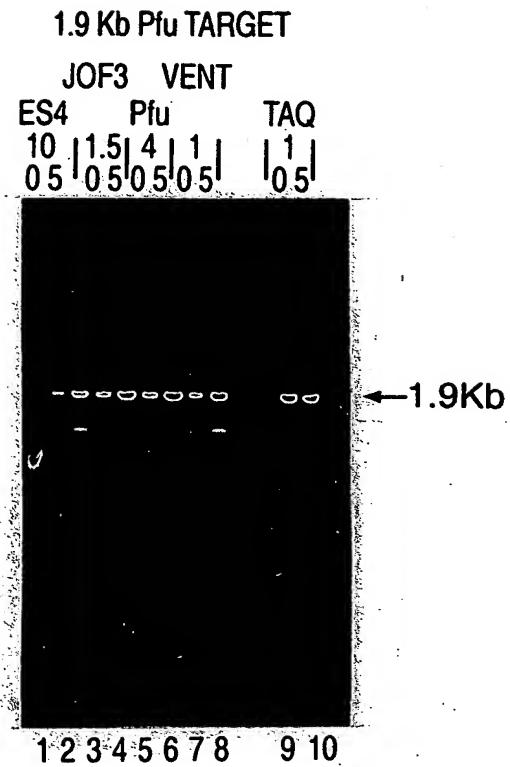


FIG. 35

DEEP VENT USING 0.75u

0 1 5 10



1 2 3 4

FIG. 36

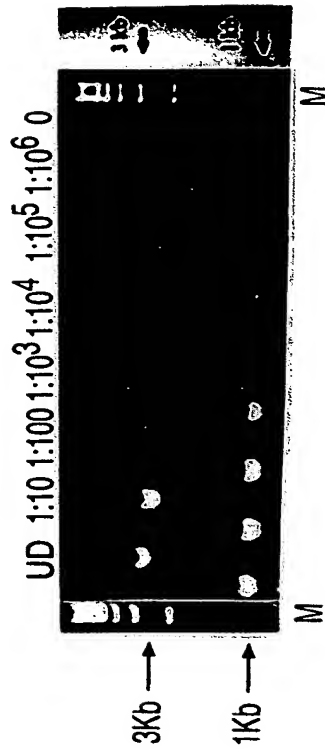


FIG. 37

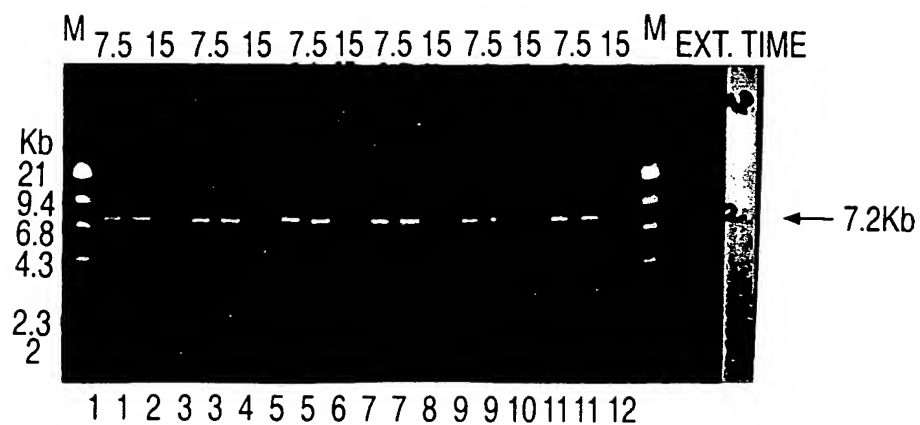


FIG. 38

Pfu "PCR ENHANCER" IN QUICKCHANGE MUTAGENESIS

LINEAR AMPLIFICATION CONDITIONS				TRANSFORMATION RESULTS	
<u>POL.</u>	<u>BUFFER</u>	<u>H.S. #75</u>	<u>AMPL. PROD.</u>	<u>#cfu</u>	<u>%MUTANTS</u>
nPfu (#38)	nPfu	0	+	84	95
		1 μ 1	\pm	47	87
		.1 μ 1	+	154	97
		.01 μ 1	++	632	95
		.001 μ 1	+	484	94
nPfu (#24A)	nPfu	0	+	94	89
		1 μ 1	+	34	85
		.1 μ 1	+	173	91
		.01 μ 1	++	468	96
		.001 μ 1	+	230	90

FIG. 39

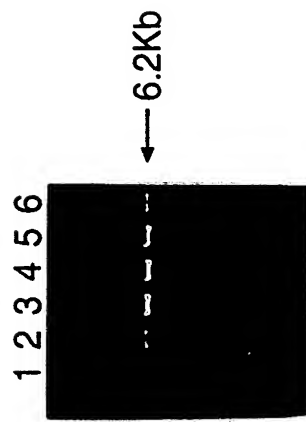


FIG. 40

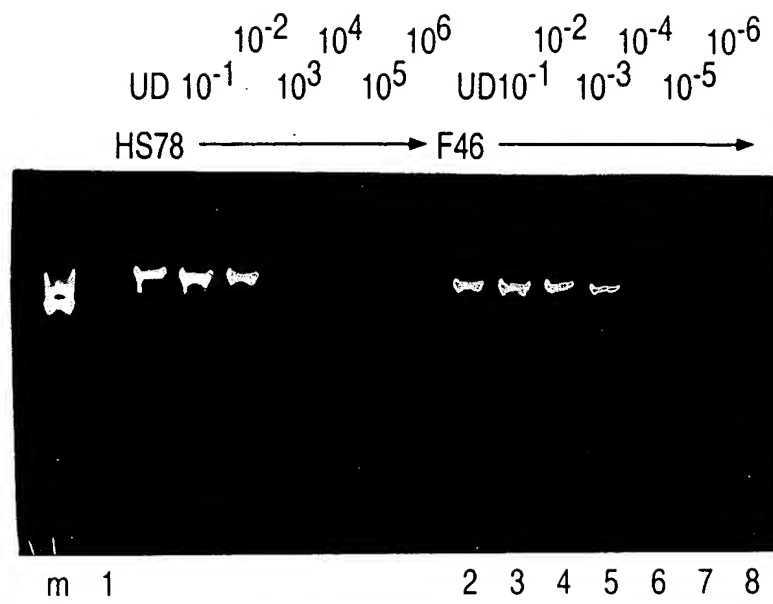


FIG. 41

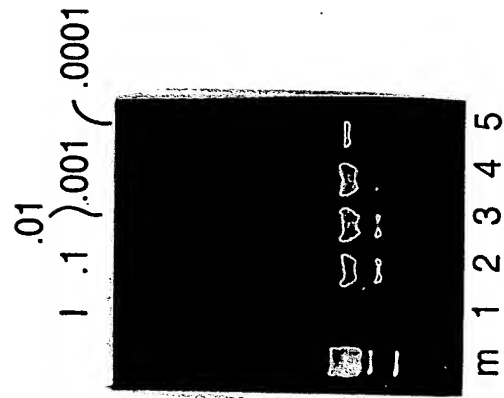


FIG. 42

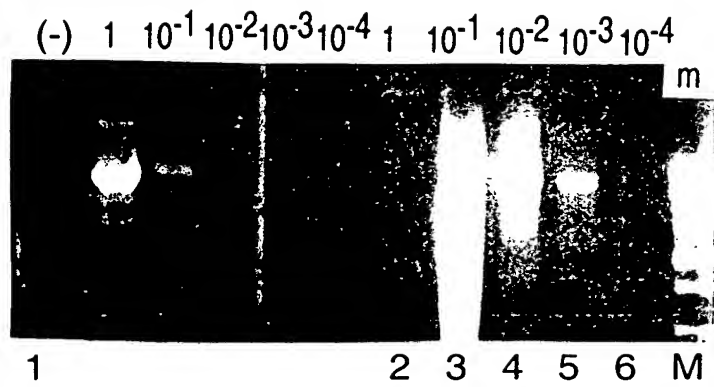


FIG. 43



FIG. 44A



FIG. 44B

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